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Inspection of Pesticides, Pool Products and Pet Preparations—1984

By Lester Hankin

STATE

INSPECTION OF PESTICIDES, POOL PRODUCTS, AND PET PREPARATIONS--1984

Results of chemical analysis of 249 official samples of pesticides, pool products, and pet preparations collected during 1984 are presented in this Bulletin. All samples were collected by inspectors of the Connecticut Department of Environmental Protection except two fertilizers containing pesticides collected by inspectors of the Connecticut Department of Agriculture.

Table 1 shows individual samples representing 408 guarantees for active ingredients from 57 manufacturers. Following the names of the manufacturers are the brands of the products and the active ingredients. The percent guarantee is then shown followed by the percent found. Values preceded by an asterisk (*) are deficient in amount of active ingredient; values enclosed in brackets [] are in excess.

Two basic criteria are used to determine if samples are satisfactory. The first is that a sample can not be deficient or excessive in amount of active ingredient. Deficiencies and excesses are based on Laboratory Verification Guidelines established by the U.S. Environmental Protection Agency. Overall, 12.0% of the 249 samples were deficient in amount of at least one active ingredient and 1.6% were excessive in amount of at least one active ingredient. For 408 guarantees for active ingredient only 7.3% were deficient and 1.0% were excessive. The second criteria is that a sample is unsatisfactory if it contains an ingredient not listed on the label. All of the samples tested were satisfactory in this respect.

Table 2 summarizes the number of samples tested from each manufacturer, the number of guarantees for active ingredients, the number of deficiencies or excesses, and the average percent of guarantee.

Analyses were performed by M. Fuzesi, R. Hastings, and M. A. Illig. Samples were collected by M. Beott and D. Griswold. Pesticide laws are administered by the Commissioner of the Department of Environmental Protection.

Lester Hankin
Chief, Analytical Chemistry

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Agway Agway 25% Methoxychlor Spray	25.0	24.5	Agway Vegetable Garden Dust	5.6	6.30
Methoxychlor			Malathion	5.0	4.90
Agway Amitrol-T	21.6	21.9	Methoxychlor	5.0	7.60
Amitrole			Captan & related cmpds.	7.0	
Agway Asparagus-Berry Weeder	4	4.1	Agway Weed & Brush Killer w/Ammate	46.5	49.4
Simazine			Ammonium Sulfamate		
Agway Diazinon Insect Spray	25	25.7	Bicep Liquid Fertilizer	0.351	0.315
Diazinon			Atrazine	0.464	0.383
Agway Diazinon Insect Spray	25.0	24.60	Metolachlor		
Diazinon			Pennvalt Penncap M		
Agway Dual Garden Orchard Spray	14.2	15.7	Methyl Parathion	20.9	21.5
Captan	7.5	8.0			
Malathion	15.0	15.08			
Methoxychlor			Alina Chemical Corp.		
Agway Fruit Tree Spray	11.35	11.15	Mr. Destroyer Roach & Ant Killer		
Captan N	6.00	6.00	Pyrethrins	0.050	0.048
Malathion	12.00	12.28	Piperonyl Butoxide	0.100	0.090
Methoxychlor	3.00	3.08	MGK 264	0.166	0.144
Carbaryl			Chlorpyrifos	0.500	0.467
Agway Garden Insect Spray w/Sevin	50	49.7	American Cyanamid Co./Household Products Div.		
Carbaryl			Pine Sol	21.8	21.5
Agway Insect Spray with Malathion	55.0	54.2	Pine Oil	11.3	13.2
Malathion			Soap	10.9	12.6
Agway Lawn Weed Killer	20.3	20.2	Isopropanol		
2,4-D	1.9	2.0			
Dicamba			Black Leaf Products Co.		
Agway Liquid Sevin 4F	42.6	43.2	Black Leaf 1% Rotenone Garden Dust	1	1.1
Carbaryl			Rotenone		
Agway Liquid Sevin 4F	42.6	43.1	Black Leaf 25% Methoxychlor Mosquito Insect		
Carbaryl			Spray	25	24.50
Agway Organic Garden Spray	1.0	1.04	Methoxychlor		
Pyrethrins	10.0	9.6	Black Leaf 5% Malathion	5.0	5.30
Piperonyl Butoxide			Gardaryl		
Agway Swat II	0.200	0.180	Black Leaf 50% Malathion Spray	50	51.3
Tetramethrin	0.191	0.185	Malathion		
Phenothrin			Black Leaf Lawn Weed Killer Spray		
Agway Take Out Systemic Weed & Grass Killer	0.96	0.97	2,4-D(alkanolamine salts)	1.66	1.52
Glyphosate			Dicamba(dimethyl amine salts)	0.31	0.32
Agway Thiodan 50W	50.	50.3	Black Leaf Rose & Flower Beauty Spray		
Endosulfan			Pyrethrins	0.0255	0.0242
Agway Total Weed Killer	1.6	1.62	Rotenone	0.1280	0.1290
Prometon			Captan	0.5035	0.5197
Agway Tree & Shrub Spray	6.0	6.7	Karathane	0.146	0.137
Metasystox	5.0	4.6	Piperonyl Butoxide, tech.	0.2560	0.2688
Kelthane	0.9	0.85	Black Leaf Slug & Snail Killer	5.00	5.10
			Carbaryl	2.50	2.90
			Metaldehyde		

Table 1. Analysis of Individual Samples (continued)

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	% Found
Black Leaf Tomato & Vegetable Garden Dust Carbaryl Maneb	5.0 6.0	5.38 6.0	Ced-O-Products Corp. Ced-O-Flora Plant Spray Borax Kerosine		0.28 35.68	present# present#
Black Leaf Yard & Patio Fogger Spray Bomb Resmethrin	0.250	0.254	Chacon Chemical Corp. Chacon Repel Dog + Cat Repellent Carbamate (Ziram + Thiram)		2.50	2.75
Bonide Chemical Co. Bonide Bulb Dust Methoxychlor Thiram	5.0 10.0	4.84 9.88	Chevron Chemical Co./Ortho Div. Flea-B-Gon Flea Killer Resmethrin		0.250	0.235
Bonide Captain 50%WP Captran	50	50.6	Ortho Ant, Roach & Spider Killer 2-(1-Methyllethoxy)phenylmethyl-carbamate		1.0	0.97
Bonide Malathion 50%EC Malathion	50	49.76	Ortho Bug-Geta Snail & Slug Pellets Metaldehyde		3.25	3.53
Bonide Moletox II Zinc Phosphide	2	2.7	Ortho Diazinon Insect Spray Diazinon		25	25.5
Bonide Rose & Floral Spray Bomb Carbaryl Folpet	0.75 0.50	0.79 *0.325	Ortho Diazinon Insect Spray Diazinon		25.0	24.7
Bonide Systemic Granules Disyston	0.50 0.075	0.60 0.10	Ortho Diazinon Insect Spray Diazinon		35.3	39.3
Bonide Systemic Granules Disyston	2	2.15	Ortho Disquat Herbicide Diquat		35.3	36.4
Bonide Systemic Granules Disyston	2	2.16	Ortho Disquat Herbicide -H/A Diquat		35.3	36.4
Boyle-Midway Black Flag Dead Aim Ant & Roach Killer DDVP	0.186	0.182	Ortho Flying & Crawling Insect Killer Resmethrin		0.250	0.248
Black Flag Flea & Roach Fogger Precor DDVP	0.950 0.150 0.470	0.930 0.210 0.512	Ortho Fruit & Vegetable Insect Control Diazinon		25	24.5
Black Flag Flea Killer Resmethrin Dursban	1.000 0.10 0.50	1.123 0.092 0.514	Ortho Funginex Rose Disease Control Triforine Ortho Hi-Power Indoor Insect Fogger Pyrethrins Piperonyl Butoxide N-octyl bicyclo heptene dicarboximide		6.5 0.50 1.00 1.67	6.35 0.60 0.98 1.61
Black Flag Roach Bait Bayson	2.000	2.300	Ortho Home Orchard Spray Captain Malathion Methoxychlor Ortho Household Insect Killer Resmethrin		14.2 7.15 15.0 0.250	17.0 [9.85] 14.9 0.230
Cadwell & Jones Cadwell & Jones Specialty Fert. 20-10-10 With Dursban	0.476	0.454	Ortho Isotox Insect Killer Acetophate Keltane Ortho Lindane Borer & Leaf Miner Spray Lindane		8.0 3.0 20	7.85 3.50 19.8
Ortho Malathion 50 Insect Spray Malathion			Ortho Liquid Sevin Carbaryl Ortho Malathion		27	27.9

Table 1. Analysis of Individual Samples (continued)

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Ortho Orthene Insect Spray			Johnson's No Roach		
Acephate	15.6	15.4	D-trans Allethrin		
Ortho Orthenex Insect & Disease Control	4.00	4.10	Chlorpyrifos	0.050	0.048
Acephate	3.25	3.10	N-octyl bicyclo heptene dicarboximide	0.500	0.469
Triforine	3.00	3.60	Johnston's Hatabug II	0.400	0.343
Kelthane			Tetramethrin	0.250	0.236
Ortho Outdoor Insect Fogger			Phenothrin	0.143	0.125
Resmethrin	0.250	0.240	Johnston's No-Roach I		
2-Hydroxyethyl-n-octylsulfide	0.950	0.940	Allethrin		
Ortho Phaltan Rose & Garden Fungicide			Chlorpyrifos	0.050	0.054
Folpet	75	74.5	N-octyl bicyclo heptene dicarboximide	0.500	0.497
Ortho Poison Ivy & Poison Oak Killer			Mr. Destroyer Insect & Roach Killer	0.400	0.380
2,4-D	0.70	0.80	Allethrin	0.300	0.330
MCPP	0.75	0.81	Phenothrin	0.191	0.185
CIBA-Geigy Corp.			Tetramethrin	0.200	0.190
Bipep	20.8	20.36	Phenothrin	0.382	0.340
Atrazine	27.5	27.90	Rite Aid Ant & Roach Killer IV		
Metolachlor			Allethrin		
CIBA-Geigy Pramitol 25E			Chlorpyrifos	0.050	0.047
Prometon	25	25.2	N-octyl bicyclo heptene dicarboximide	0.500	0.462
Spectracide Lawn & Garden Insect Control			Rite Aid Disinsectant Spray	0.400	0.356
Diazinon	25.0	25.3	0-phenylphenol	0.109	0.102
Spectracide Professional Home Pest Control			N-alkyl dimethyl benzyl ammonium	0.035	0.034
Diazinon	1.0	1.02	chloride		
N-alkyl dimethyl ethylbenzyl ammonium			N-alkyl dimethyl ethylbenzyl ammonium	0.035	0.034
chloride			chloride		
Rite Aid Roach Killer IV			Rite Aid Roach Killer IV		
D-trans Allethrin			D-trans Allethrin	0.050	0.057
Chlorpyrifos			Chlorpyrifos	0.500	0.494
N-octyl bicyclo heptene dicarboximide			Spider-Not	0.400	0.406
Spider-Not			B-butoxy B-thiocyanodioethyl ether	1.750	1.680
Time Mist Indoor Fogger -I			Time Mist Indoor Fogger -I		
Pyrethrins			Piperonyl Butoxide, tech.	0.500	0.509
707 Automatic Indoor Fogger Roach Bomb			N-octyl bicyclo heptene dicarboximide	1.00	0.94
Allethrin	0.191	0.191	Wasp-Not	1.67	1.64
Phenothrin	0.300	0.296	B-butoxy B-thiocyanodioethyl ether	1.75	1.77
707 Automatic Indoor Fogger Roach Bomb			Creative Products Co.		
Allethrin	0.310	0.183	Ozium Air Sanitizer		
Phenothrin	0.191		Triethylene Glycol	4.4	4.9
707 Automatic Indoor Fogger Roach Bomb			Propylene Glycol	4.4	5.1
Allethrin	0.300	0.191	Creative Sales		
Phenothrin	0.191	0.197	Aeacap Systemic Insecticide Impants		
707 Flying Insect Killer I					
Tetramethrin	0.200	0.170			
Phenothrin	0.191	0.176			
707 House & Garden Spray					
Tetramethrin	0.200	0.166			
Phenothrin	0.191	0.166			

Table 1. Analysis of Individual Samples (continued)

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Dexol Industries					
Dexol African Violet Insect Spray	0.0286	0.0132	Edsan Insect Killer	0.200	0.193
Tetramethrin	0.0547	0.0613	Tetramethrin	0.191	0.173
Phenothrin			Phenothrin		
Dexol Chlordane 45% Spray	45	44.8	Edsan No. 89 Disinfectant	0.176	0.178
Chlordane, tech.			Ortho-phenylphenol	0.044	0.047
Dexol Contact			Para-tertiary amylophenol		
Aromatic Petroleum Hydrocarbons	80	81.9	Edsan Q-A Disinfectant-Cleaner-Sanit.-Deod.		
Dexol Cygon Systemic Insecticide Cygon	23.4	23.8	N-alkyl dimethyl benzyl ammonium chloride	5.0	5.30
Dexol Dexa-Klor Insect Spray	6.7	7.0	Edsan Spectrum		
Dursban			Didecylo dimethyl ammonium chloride	4.5	4.57
Dexol Diazinon Insect Spray	25.0	25.20	Edsan Triple D		
Diazinon			N-alkyl dimethyl benzyl ammonium chloride	4.8	5.18
Dexol Maneb Garden Fungicide Maneb	80	63.5	Estech		
Dexol Red Spider & Mite Spray Keithane			Gro-Tone Crabgrass Preventer w/Tupersan		
Dexol Sevin Liquid Carbaryl	22.5	23.1	Siduron	2.3	2.2
Dexol Whitefly & Mealybug Spray Methoprene	0.100	0.120	Gro-Tone Weed Control + Lawn Food		
Pentac	0.075	0.076	2,4-D	0.58	0.422
Resmethrin	0.050	0.058	MCPP	0.24	0.200
Dow Chemical Co.			Dicamba	0.05	0.039
Dursban 2E			Gro-Tone Weed Control + Lawn Food		
Dursban			2,4-D	0.58	0.085
Dursban 2E			2-(2 Methyl-4-chlorophenoxy) propionic acid		
Dursban			Dicamba	0.240	0.072
Tough Act			Gro-Tone Weed Killer	0.05	trace
N-alkyl dimethyl benzyl ammonium chloride	0.1	0.12	2,4-D	1.40	1.22
N-alkyl dimethyl ethylbenzyl ammonium chloride	0.1	0.12	K-Mart Weed & Feed 10-6-4	2,4-D	0.656
D.E.I. DuPont De Nemours & Co.			K-Mart Weed & Feed 10-6-4	2,4-D	0.302
Ammate X-NI	95	95.2	K-Mart Weed & Feed 10-6-4	2,4-D	0.302
Ammonium Sulfamate			Par-Ex Slow Release Fert. with IBDU/SCU	2,4-D	0.66
Edsan Chemical Co.			Super K-Gro Weed & Feed	0.30	0.164
Edsan Double D Cleaner & Disinfectant			2,4-D	0.06	0.026
N-alkyl dimethyl benzyl ammonium chloride	0.076	[0.133]	MCPP	0.55	0.506
N-alkyl dimethyl ethylbenzyl ammonium chloride	0.076	[0.133]	Dicamba	0.25	0.238
Edsan Emulsion Bowl Cleaner			Surban 10-6-4 Weed & Feed	0.05	0.050
Hydrogen Chloride			2,4-D	1.22	0.420
Vigoro Crabgrass Preventer + Lawn Fert. Benefit	23.00	22.56	Swift Lawn Weeder & Feeder	2,4-D	0.141
			Terve Lawn Spur Turf Fert. + Crabgrass Preventer Benefit		
					0.894
					0.635
					0.7

Table 1. Analysis of Individual Samples (continued)

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Vigoro Crabgrass Preventer w/Benifin	0.62	[1.13]	Hyponex Co. Hyponex Bug Dart + Plant Food	1.0	0.89
Benifin			Hyponex DiSystem		
Vigoro Weed & Feed	0.55	*0.315			
2,4-D	0.25	*0.153			
MCPP	0.05	*0.031	Lebanon Chemical Corp. Greenview Preen Flower & Garden Weed Preventer		
Dicamba					
Vigoro Weed & Feed	0.55	0.468	Trifluralin	1.47	1.42
2,4-D					
2-(2-Methyl-4-chlorophenoxy)propionic acid	0.25	0.250			
Dicamba	0.05	0.035			
Vigoro Weed Control + Lawn Fert.	0.58	0.540	Lehn & Fink Prod. Div./Sterling Drug Lysol Deodorizing Cleaner	1.43	
2,4-D	0.24	0.252	Alkyl dimethyl benzyl ammonium chloride	2.70	2.94
MCPP	0.05	0.058	Lysol Toilet Bowl Cleaner		
Dicamba			Hydrogen Chloride	8.50	8.58
Farnam Co. Farnam Killer Kane Cartridges	38.5	38.8	Lesco		
2,4-D			Lesco Orthanol	1.51	1.43
FMC Co. Anti-Mildew Paint			Orthanol		
3-Iodo-2-propynyl butyl carbamate	no guar.	0.28	Lesco Orthanol 1.5% Granular Orthanol	1.5	1.54
Clark Storm/Coat Acrylic Stain "quartz"					
3-Iodo-2-propynylbutylcarbamate	no guar.	1.60	Mallinckrodt Dycarb	76	77.3
Clark Storm/Coat Linseed Oil Stain Wood Preservative Chestnut Brown	not stated	*0	Bendiocarb		
N-(Trichloroethylthio)phthalimide					
Grow Consumer Products			Miller Chem. & Fert. Corp./Pratt Gabriel Div.		
Like Magic House Plant Insecticide			Pratt 1% Rotenone Dust or Spray	1.0	1.1
Tetramethrin			Rotenone		
Phenothrin	0.0286	0.0230	Pratt 5% Sevin Dust	5.0	5.3
Like Magic Whitefly & Mealybug Insecticide	0.0547	0.0576	Carbaryl		
Tetramethrin			Pratt Diazinon 25E Insect Spray	25.0	25.9
Phenothrin	0.0286	0.0237	Diazinon		
	0.0547	0.0630	Pratt Liquid Weedaway		
			2,4-D	12.11	13.18
			MCPP	5.85	6.22
H. Krevit & Co.			Dicamba	1.34	1.44
15% Sodium Hypochlorite	approx 15	*8.30	Pratt Methoxychlor-25 Insect Spray	25	25.5
Sodium Hypochlorite			Methoxychlor		
15% Sodium Hypochlorite	approx 15	*10.26	Pratt Mite Spray		
Sodium Hypochlorite			Keithane		
15% Sodium Hypochlorite	approx 15	*10.45	Pratt Noculate Systemic Insecticide 0,0-Diethyl S-[2-(ethylthio)ethyl]-phosphorodithioate	1	*0.79

Table 1. Analysis of Individual Samples (continued)

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Pratt Red Arrow Insect Spray			NU-Method Pest Control Service		
Pyrethrins			NU-MRK Ant. & Roach Killer Household Insect		
Rotenone	0.5	0.54	Spray	0.490	0.490
Piperonyl Butoxide, tech.	1.5	1.48	Diazinon	0.055	0.055
Pratt Scalecide	3.0	3.06	Pyrethrins	0.258	0.258
Petroleum Oil			Piperonyl Butoxide, Tech.		
Pratt Super D Weedone	98	100			
2,4-D	20.3	20.5			
Dicamba	1.9	2.0			
Pratt Tomato & Vegetable Dust			Nutrioco		
Rotenone	0.75	0.94	Derby's 25-35 Fert. + Weedicide	0.684	0.465
Copper	7.00	7.65	Dichlorophenoxyacetic Acid		
Pratt Whitely Spray	0.25	0.213	2-(2 Methyl-4-chlorophenoxy)propionic acid	0.306	0.249
Resmethrin			Dicamba	0.065	0.068
Miller Chem. & Fert. Corp./Science Prod. Div.			Flower Time Crabgrass Preventer + Lawn Fert.		
Science Benomyl 50W	50	49.6	Benefin	1.280	1.290
Benomyl			Flower Time Premium Weed & Feed w/Trimec		
Science Blossom Set			2,4-D	0.761	0.771
Beta-naphthoxyacetic acid			MCPP	0.341	0.457
Science Clover Mite & Red Spider Spray	0.00442	0.00442	Dicamba	0.072	0.103
Kethane	0.25	0.246	Nutrioco Premium Weed & Feed w/Trimec		
Kelthane			Dichlorophenoxyacetic acid	0.684	0.697
MK Laboratories			2-(2 Methyl-4-chlorophenoxy)propionic acid	0.306	0.366
McFeeless Oil of Citronella			Dicamba	0.065	0.075
Oil of Citronella	100	100	Total Arsenic		
R & C Shampoo			Siduron		
Pyrethrins	0.30	0.33	O.M. Scott & Sons		
Piperonyl Butoxide, tech.	3.00	2.66	Scotts Spot Dandelion Control		
Rid			2,4,-D	1.66	1.50
Pyrethrins	0.30	0.278	Dicamba	0.31	0.40
Piperonyl Butoxide, tech.	3.00	2.95	Scotts Spot Grass & Weed Control		
Mobay Chem. Corp./Agric. Chem. Div.			Total Arsenic	0.70	0.70
Mobay Guthion 50%WP	50	49.45	Old Fox Chemical		
Guthion			Old Fox Dacthal 5G		
Monsanto Co.			Dacthal	5	4.7
Monsanto Roundup	41.0	40.90	Old Fox Granular Crab Control		
Glyphosate			Siduron	2.3	1.44
Northeast Packaging					
Agway Wasp & Hornet Jet Spray			Parrot Agro Industries		
Resmethrin	0.250	0.251	Lucky Strike 48% Chlordane Formula 57	48	46.7
			Chlordane, tech.		
			Lucky Strike 5% Sevin Dust or Spray		
			Carbaryl		5.20

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Lucky Strike Black Magic For Roses			Parrott Multi Purpose Maltox Insecticide		
Formula 500	5.00	*1.48	Fungicide	15	15.65
Carbaryl	25.0	26.40	Malathion	20	19.30
Sulphur	0.05	0.043	Methoxychlor	1.80	*0.259
Pyrethrins	5.00	5.10	Dichlone		
Captan			Parrott Ready-to-use Maltox Spray	0.02	0.024
Lucky Strike Crop Maker Veg. Dust			Pyrethrins	0.20	0.18
Formula 300	7.00	6.78	Piperonyl Butoxide, tech.		
Copper	0.80	0.74	Scatter Bait Formula 101		
Rotenone			Ortho boric acid	100	100.0
Lucky Strike Cropmaker Vegetable Dust					
Formula 300	7.00	6.88	Pet Chemicals		
Copper			Vapo Total Release Aerosol	6.51	6.40
Lucky Strike D-Ban Roach & Ant Spray			Vapona	1.00	1.04
Formula 30	0.052	0.057	2-(1-Methylethoxy)-phenolmethyl-carbamate		
Pyrethrins	0.500	0.530			
Chlorpyrifos	0.260	0.280			
Piperonyl Butoxide					
Lucky Strike Diazinon 25% Conc. Formula 10	25		Pharmacial Research Laboratories		
Diazinon			AN-FA-CIDE-S Activator		
Lucky Strike Diazinon Dust Formula 40	4	*3.29	Lactic acid	8.6	9.06
Diazinon			AN-FA-CIDE-S Base		
Lucky Strike Malathion 50% Formula 99	50	51.0	Sodium chlorite	1.37	1.44
Malathion			Entix Dip		
Lucky Strike Malcap Dust or Spray			Pyrethrins		
Formula 488	8.00	8.60	Piperonyl Butoxide, tech.	0.33	0.34
Captan	4.00	3.97	N-octyl bicyclo heptene dicarboximide	0.67	0.65
Malathion	8.00	7.98	Entix File Tick Killer	1.11	1.10
Methoxychlor			Pyrethrins		
Lucky Strike Maltox Formula 24			Piperonyl Butoxide, tech.	0.25	0.26
Pyrethrins	0.02	0.022	Quatricide Disinfectant Detergent	2.45	2.56
Piperonyl Butoxide	0.20	0.184	N-alkyl ethylbenzyl ammonium		
Lucky Strike Metacine Weed Killer Formula 9	19.00	20.60	chloride	2.25	2.45
2,4-D(isooctyl ester)			N-alkyl benzyl ammonium		
Lucky Strike Rotenone 1% Dust or Spray			chloride	2.25	2.45
Formula 1000	1.00	1.10	Quatricide-Ten Disinfectant Deodorizer		
Rotenone			Sanitizer		
Lucky Strike Sevin 22.5% Formula 27	22.5	*	N-alkyl dimethyl benzyl ammonium	5	5.04
Carbaryl			chloride		
Could not be tested-not mixable			N-alkyl ethylbenzyl ammonium		
Lucky Strike Weed Buster & Grass Killer			chloride	5	5.04
Formula 45	1.6	1.80			
Prometon					
Parrott Black Magic For Roses			Proctor & Gamble		
Carbaryl	5.00	5.60	Comet Cleanser		
Captan	5.00	5.40	phosphorus, total	2.9	2.7
Sulphur	25.00	25.20	Sodium dodecyl benzenesulfonate	1.90	2.18
Pyrethrins	0.05	0.047	Sodium Hypochlorite	0.45	*0.21
Parrott Malathion 50%	50	50.7			
Malathion					
Parrott Metacine Weed Killer					
2,4-D(isooctyl ester)					
	19.00	19.10			

Table 1. Analysis of Individual Samples (continued)

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found
Rhone Poulenc Chem. Co./Agrochem Div. ChiPoo 26019 Iprodione	50	49.5	Seacoast Laboratories Twin Light Diazinon 5% Granular Diazinon	5	4.96
Rigo Co. Kill-Ko Weedone Super BK 32 2,4-Dibutoxy ethyl ester 2,4-D propionic acid(butoxy ethyl ester)	16.7	17.1	Twin Light Garden Spray Malathion Methoxychlor Kethane Carbaryl	15.00 7.50 5.00	15.90 7.59 5.15
Rockland Chemical Co.	16.4	16.8	Twin Light Liquid Sevin Twin Light Malathion 50% Spray Malathion Twin Light Methoxychlor Spray	21.50 50	21.20 51.0
Rockland Captain Garden Fungicide Captain & Related Derivatives	50.0	51.50	Seacoast Laboratories Twin Light Diazinon 5% Granular Diazinon	5	4.96
Rockland Ferbam Fungicide Ferbam	76	76.4	Shell Chemical Co. Shell Vandex 50WP Hexakis (2-methyl-2-phenylpropyl-distannoxane)	50.1	50.1
Rockland Liquid Fruit Tree Spray Captain Malathion Methoxychlor Carbaryl Rockland Weed & Grass Killer Prometon 2,4-D(butoxy propyl ester)	11.35 6.00 12.00 3.00 11.28 4.78 12.32 3.35 3.42 1.54 1.63	11.28 4.78 12.32 3.35 3.42 1.54	Swift Agric. Chem. Corp. Vigoro Rose & Flower Spray Pyrethrins Roenone Methoxychlor Karathane N-octyl bicyclo heptene dicarboximide Vigoro Rotenone Insecticide Rotenone Vigoro Weed & Grass Topkill Sodium cacodylate Dimethylarsinic acid(total arsenic)	0.020 0.100 0.300 0.091 0.300	0.025 0.120 0.305 0.104 0.309
Savol Bleach Co. Savol Algaecide Alkyl dimethyl benzyl ammonium chloride Savol Bleach Sodium Hypochlorite Savol Shock Treatment Sodium Hypochlorite	10	10.5	Top Products Top Disinfectant 450 N-alkyl dimethyl benzyl ammonium chloride N-alkyl dimethyl ethylbenzyl ammonium chloride	1.11	1.25
Schultz Co. Schultz Insecticide Spray Pyrethrins Piperonyl Butoxide	12.5	*10.2	Top Products Top Disinfectant 450 N-alkyl dimethyl benzyl ammonium chloride N-alkyl dimethyl ethylbenzyl ammonium chloride	1.11	1.25
Science Products Co. Science Hornet & Wasp Bomb Malathion Vapona Science Systemic Insecticide Granules Disyston	3.00 0.46	0.021 0.183	Union Carbide Agric. Prod. Liquid Amizine Amitrol Simazine	4.9 9.9	4.98 10.20
	1	0.95	Whitmire Research Labs. Whitmire PT 1200 Resmethrin Resmethrin	1.000	1.025

Table 1. Analysis of Individual Samples (continued)

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	Manufacturer, Product Name & Active Ingredient	% Guaranteed	% Found	
Whitmire PT 1300 w/Orthene	3.0	3.05	Security Super D II Weedone	13.8	14.0	
Acphate			2,4-Diethanolamine salts)	1.4	1.30	
Whitmire PT 1400	0.48	0.505	Dicamba(diehanolamine salts)			
Phenothrin	5.0	5.12	Security Tomato & Vegetable Dust	6.0	6.44	
N-octyl bicyclo heptene dicarboximide			Maneb	5.0	5.50	
			Carbaryl			
Why-Not Industries			Security Zineb Spray			
Mill-O-Cide Aerosol			Zineb	75	69.4	
Pyrethrins	0.3	0.34	Zoecon Corp./Crop Protection Div.			
Piperonyl Butoxide	0.60	0.63	Maurik Aquaflo Insecticide			
N-octyl bicyclo heptene dicarboximide	1.00	0.980	Fluvalinate	22.3	22.9	
Woolfolk Chemical Works			# Not tested quantitatively			
Security Banomyl Spray			# Not tested quantitatively			
Banomyl	50	50.6	# Not tested quantitatively			
Security Blot-Out 2			# Not tested quantitatively			
Glyphosate	0.96	0.93	# Not tested quantitatively			
Security Bug Off Dust			# Not tested quantitatively			
Carbaryl	5.000	5.000	# Not tested quantitatively			
Security De-Flea			# Not tested quantitatively			
Pyrethrins			# Not tested quantitatively			
Piperonyl Butoxide, tech.	0.06	0.063	# Not tested quantitatively			
Security Diazinon Yard & Vegetable Garden Granules	0.60	0.62	# Not tested quantitatively			
Diazinon	5.0	4.93	# Not tested quantitatively			
Security EZ Garden Weed Killer			# Not tested quantitatively			
Trifluralin	1.75	1.72	# Not tested quantitatively			
Security Home Fruit Spray Flowable			# Not tested quantitatively			
Captan	10.9	11.7	# Not tested quantitatively			
Malathion	8.5	9.5	# Not tested quantitatively			
Security Indoor Insect Fogger			# Not tested quantitatively			
2,2-Dichlorvinyl dimethyl phosphate	0.47	0.43	# Not tested quantitatively			
Pyrethrins	0.4	0.39	# Not tested quantitatively			
Piperonyl Butoxide, tech.	0.80	0.77	# Not tested quantitatively			
N-octyl bicyclo heptene dicarboximide	1.55	1.64	# Not tested quantitatively			
Security Malathion			# Not tested quantitatively			
Malathion	56.1	55.20	# Not tested quantitatively			
Security Mealybug & Whitefly Houseplant Spray			# Not tested quantitatively			
Alcosid	0.100	0.118	# Not tested quantitatively			
Pentac	0.075	0.070	# Not tested quantitatively			
Remethrin	0.050	0.052	# Not tested quantitatively			
Security Pro-Tect			# Not tested quantitatively			
Dursban	0.50	0.52	# Not tested quantitatively			
Security Rose & Flower Spray			# Not tested quantitatively			
Pyrethrins	0.02	0.025	# Not tested quantitatively			
Piperonyl Butoxide, tech.	0.20	0.19	# Not tested quantitatively			
Security Slug, Snail & Insect Bait			# Not tested quantitatively			
Metaldehyde	2.0	2.37	# Not tested quantitatively			
Carbaryl	5.0	4.95	# Not tested quantitatively			

Table 2. Summary for each manufacturer of number of products tested, number of guarantees for active ingredients, number of samples not meeting guarantee (deficient or excessive), and average percentage of guarantee.

Manufacturer	Number of products tested	Number of guarantees	Number of guarantees deficient(-) or excessive(+)	Average % of guarantee
Agway	22	35	0	101
Alina Chem.	1	4	0	92
American Cyanamid	1	3	0	110
Black Leaf Prod.	9	16	0	102
Bonide Chem.	7	11	1-	106
Boyle-Midway	4	8	0	108
Cadwell & Jones	1	1	0	95
Ced-O-Products	1	2	0	-
Chacon Chem.	1	1	0	110
Chevron	22	31	1+	104
Ciba-Geigy	4	5	0	101
Conn. Aerosols	18	40	0	98
Creative Products	1	2	0	114
Creative Sales	1	1	0	101
Dexol Indust.	10	13	1-	98
Dow Chem.	3	4	0	120
E.I. DuPont deNemours	1	1	0	100
Edsan Chem.	7	10	2+	116
Estech	16	30	13-, 1+	71
Farnam	1	1	0	101
FMC	3	3	1-	-
Grow Consumer Prod.	2	4	0	96
H. Krevit	3	3	3-	65
Hyponex	1	1	0	89
Lebanon Chem.	1	1	0	97
Lehn & Fink	2	2	0	105
Lesco	2	2	0	99
Mallinckrodt	1	1	0	102
Miller/Pratt Gabriel	12	18	1-	103
Miller/Science Prod.	3	3	0	100
MK Laboratories	3	5	0	98
Mobay Chem.	1	1	0	99
Monsanto	1	1	0	100
Northeast Packaging	1	1	0	100
NU-Method Pest Control	1	3	0	101
Nutrico	4	10	0	107
O.M. Scott & Sons	2	3	0	107
Old Fox Chem.	2	2	1-	78
Parrott Agro Indust.	21	36	4-	97
Pet Chem.	1	2	0	101
Pharmacal Research Labs.	6	11	0	103
Proctor & Gamble	1	3	1-	84
Rhone-Poulenc	1	1	0	99
Rigo	1	2	0	102
Rockland Chem.	4	8	1-	99
Savol Bleach	3	3	1-	102
Schultz	1	2	0	98
Science Prod.	2	3	0	104
Seacoast Labs.	5	7	0	101
Shell Chem.	1	1	0	100
Swift Agric. Chem.	3	7	0	114
Top Prod.	1	2	0	141
Union Carbide	1	2	0	102
Whitmire Res. Labs.	3	4	0	103
Why-Not Indust.	1	3	0	105
Woolfolk Chem.	16	27	2-	102
Zoecon	1	1	0	103
Total	249	408		



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